

Circulator with 16 dB Isolation from 2 GHz to 4 GHz, 10 Watts and SMA Female



PE83CR005

Circulators Technical Data Sheet

Features

- Single Junction Circulator
- 2 to 4 GHz Frequency Range
- Max Forward Power 10W (CW)
- Insertion Loss 0.75 dB Typ

Applications

- Radar Systems
- Military
- Wireless Radio Systems

- VSWR 1.4:1 Typ
- Isolation 16 dB Typ
- SMA Female Connectors
- Telecom Infrastructure
- Communication Systems
- R&D Labs

Microwave Radio Systems

Description

Pasternack carries a broad selection of circulators to fit your needs. These unique devices allow two different direction signals to share the same channel. The classic use of this three port device is for routing signals between an antenna and a transceiver, allowing the receive signal to enter from the antenna (port 1) and exit to the receiver (port 2) while the transmit signal enters from the transmitter (port 3) and exits to the antenna (port 1). The circulator can also be used as an isolator by placing a matched load into one of the ports. These components can be used in antenna transmitting and receiving, radar, amplifier systems and any application that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

The PE83CR005 is a single junction circulator that operates from 2 to 4 GHz and can handle up to 10 Watts (CW) in the forward direction. The coaxial part uses SMA female connectors on all ports and has typical electrical specifications of 1.4:1 VSWR, 16 dB isolation and 0.75 dB insertion loss. The package is RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
Insertion Loss		0.75		dB
Isolation		16		dB
VSWR		1.4:1		
Forward Power, CW			10	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Circulator with 16 dB Isolation from 2 GHz to 4 GHz, 10 Watts and SMA Female PE83CR005

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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Mechanical Specifications

Size Length Width Height Body Material and Plating

1.26 in [32 mm] 0.71 in [18.03 mm] 1.26 in [32 mm] Aluminum

Configuration

Design Package Style Connector 1 Connector 2 Connector 3 Single Junction Connectorized SMA Female SMA Female SMA Female

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Circulator with 16 dB Isolation from 2 GHz to 4 GHz, 10 Watts and SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/circulator-16db-isolation-4-ghz-10-watts-sma-female-pe83cr005-p.aspx

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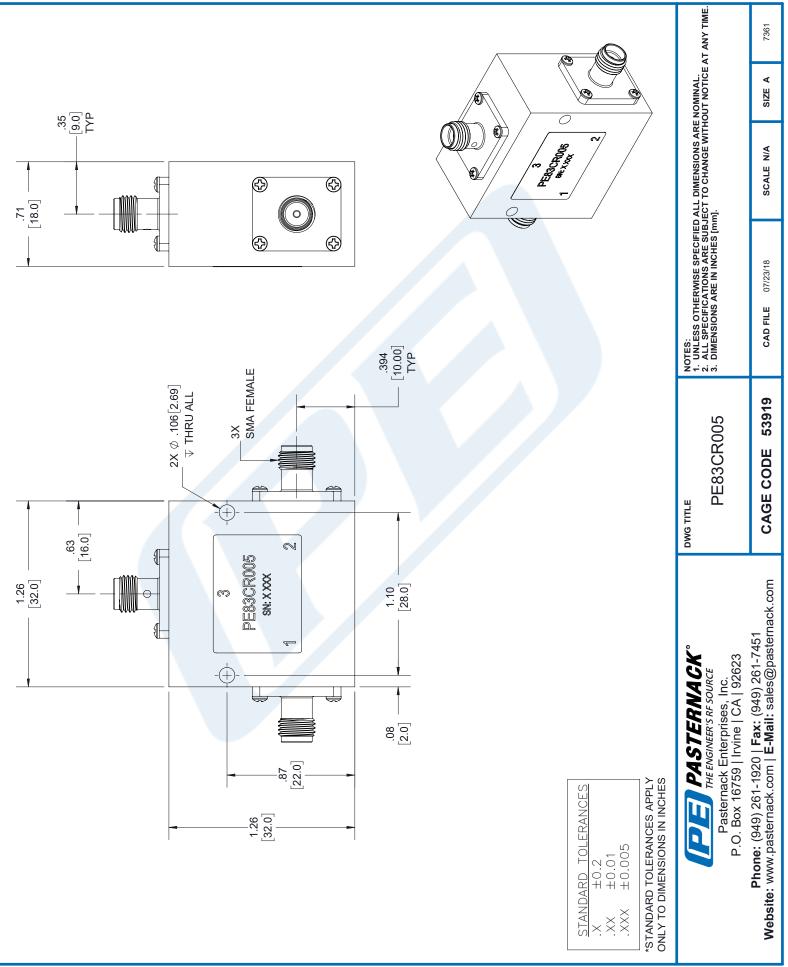
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PE83CR005

PE83CR005 CAD Drawing Circulator with 16 dB Isolation from 2 GHz to 4 GHz, 10 Watts and SMA Female



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